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(54) PRODUCTION OF ETHER ACETAL

))Abstract:

PROBLEM TO BE SOLVED: To provide a method for producing an ether acetal in high yield with a simple operation without requiring to use an organic halogen compound and without generating a large amount of salts as by-products.

SOLUTION: This production of an ether acetal is to produce a compound having ether and acetal skeletons in one pot by reacting a polyhydric alcohol having  $\geq 3$  hydroxy groups with a carbonyl compound under a hydrogen atmosphere having normal to 2 MPa hydrogen pressure in the presence of a palladium-based catalyst at 10-200° C. During the reaction, operations for flowing hydrogen and dropping the carbonyl compound are preferably included.

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